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REPORT NO. 4

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PROCUREMENT SECTION
CURRENT SERIAL RECORDS

Cotton Fiber and Processing Test Results

CROP of

1971



Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 October 1, 1971

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1971

Discussion of Test Results

Cotton Division laboratories of the Consumer and Marketing Service report that short staple samples tested from the Southwest are shorter, coarser, and weaker than through the same period last season. Shirley Analyser nonlint content and picker and card waste is lower. Yarns spun from these samples are weaker. Average spinning potential yarn number is lower than a year ago.

Medium staple samples tested from the Southwest are shorter and coarser than through the same period last season. Fiber strength at 1/8-inch gage is lower. Yarns spun from these samples are weaker. Average spinning potential yarn number is lower than last year.

This is the fourth of a series of reports of fiber and processing test results from the 1971 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1970", March 1971. These reports are published by the Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States through September 24, 1971 1/

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn Quality			Spin. Potent.		
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Zero gage	1/8" gage	Skein str.		Appear- ance	Imperf- ections
No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs. 22s	Index Carded	No. Yarn	Yarn No.			
Short Staple: Southwest: 1970 1971	5	0.97	46	4.4	87	22	3.7	6.2	96	120	22	49		
	6	0.95	45	4.8	82	20	2.9	6.0	84	120	23	38		
Medium Staple: Southwest: 1970 1971	25	1.09	46	4.4	85	23	3.0	5.8	107	121	20	68		
	23	1.06	45	4.6	86	22	3.0	5.6	103	122	19	59		
Medium Staple: Southwest: 1970 1971	17	1.06	46	4.6	87	22	3.0	5.5	103	123	19	59		
		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

* ERRATA *

Please make the following pen and ink changes in Cotton Fiber and Processing Test Results, Report #3, dated September 17, 1971

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1/ Based on a limited number of samples of modal quality2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1971

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										Spin. Potential	
No	Grade	Name & Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns				
				2.5% span	Unif		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		Pct	Pct	Lbs	Lbs	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	
																									In
32s																									
SOUTHWEST																									
SOUTH TEXAS																									
MATHIS																									
3	LM LT SP	52	30	0.97	45	4.4	79	19	LANKART 611	6.3	3.4	6	4	5.8	68 PERCENT	88	7.0	5.6	130	120	34	21	43		
CENTRAL TEXAS																									
LOCKHART																									
1	MID LT SP	32	30	0.97	46	5.3	88	22	ANTON 99	6.1	2.0	2	4	5.3	100 PERCENT**	92	6.6	5.7	130	120	26	15	40		
TEMPLE																									
1	SIM LT SP	42	30	0.91	44	4.8	84	19	LANKART 57	6.2	3.2	3	4	6.6	95 PERCENT	73	5.9	4.7	120	120	35	22	29		
WACO																									
1	SIM LT SP	42	30	0.97	44	5.3	84	20	LANKART IX-571	6.2	3.4	4	4	6.7	97 PERCENT	75	5.9	4.6	130	120	41	28	31		

* 100 percent selected for tests, less than 100 percent in the area.

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
Grade & Code		Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential		
			2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx			
No	Name & Code	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No		
SOUTH CENTRAL MISSOURI																							
SENATH 1 SIM		41	35	1.12	46	3.9	79	AUBURN M 22	6.6	1.7	1	3	5.1	112	41	7.0	5.7	120	90	24	18	71	
SOUTHWEST SOUTH TEXAS																							
BISHOP 3 IM LT SP		52	32	0.99	43	4.2	77	STONEVILLE 7A 20	6.5	4.1	5	4	7.7	84	24	4.9	2.9	120	90	24	19	43	
CORPUS CHRISTI 3 IM LT SP		52	32	1.03	44	4.7	82	STONEVILLE 7A 22	6.0	4.3	5	4	6.1	97	31	5.2	3.5	120	100	16	11	54	
DANEVANG 3 SIM		41	33	1.06	46	4.7	84	DELTAPINE 16 22	6.5	1.9	3	3	5.1	101	31	5.8	3.7	120	100	17	15	56	
CENTRAL TEXAS																							
CROCKETT 1 SIM		41	35	1.12	45	5.5	86	STONEVILLE 7A 23	5.9	2.5	3	4	4.6	111	36	5.5	3.7	130	100	12	8	60	
PEARSALL 2 SIM		41	34	1.14	42	3.3	82	DELTAPINE 16 23	7.6	2.9	2	3	5.5	118	42	7.2	5.6	100	80	30	28	71	
SUGARLAND 1 SIM LT SP		42	34	1.08	46	4.7	91	DELTAPINE 16 23	5.9	3.9	3	3	6.1	107	34	5.7	3.9	130	100	16	11	58	

